

Novel Methods for the Assay of Troponin I and T and Complexes
of Troponin I and T and Selection of Antibodies for Use in
Immunoassays

5

ABSTRACT OF THE DISCLOSURE

Assay systems and specialized antibodies for the
detection and quantitation of troponin I and troponin T in
body fluids as an indicator of myocardial infarction. Since
troponin I and T exist in various conformations in the blood,
the ratios of the monomeric troponin I and T and the binary
and ternary complexes, as well as which form of troponin
present in the blood, may be related to the metabolic state
of the heart. Disclosed is a system to determine the
presence of a troponin form or a group of troponin forms in a
sample of whole blood, serum or plasma.

Disclosed is a stabilized composition of troponin;
the stabilized composition can comprise a stabilized
composition of troponin I, wherein the troponin I is
oxidized, the troponin I can be unbound or the troponin I can
be in a complex.

Disclosed is a method for improving the recovery of
troponin I or T from a surface used in immunoassays

Also disclosed are antibodies which recognize,
unbound troponin forms, the forms of troponin in binary
complexes, the ternary complex of troponin I, T and C, and
the conformations of troponin I having intramolecularly
oxidized and reduced cysteines.

30